CLAIM AMENDMENTS

Claim 1. (Cancelled)

Claims 2-18. (Cancelled)

19. (Currently Amended) A method comprising:

providing a light modulator comprising a pixel cell and a first memory local to the pixel

cell relative to other pixel cells of the modulator to store a digital indication of a predetermined

voltage;

providing a capacitor to maintain a terminal voltage of the a pixel cell near the a predetermined voltage;

providing a first memory to store a first digital indication of the predetermined voltage; during a frame update operation, communicating the second digital indication from the second memory to update the terminal voltage of the pixel cell; and

during a refresh operation, converting the first digital indication into an analog voltage to update a charge on the capacitor.

Claim 20. (Cancelled)

21. (Currently Amended) The method of claim 19, wherein the first memory is local to the pixel cell and the second memory is a global memory for multiple pixel cells.

- 22. (Previously Added) The method of claim 19, wherein the memory comprises a static random access memory.
 - 23. (Previously Added) The method of claim 19, further comprising: during the refresh operation, reading the digital indication from the memory.
 - 24. (Previously Added) The method of claim 19, further comprising: during the refresh operation, latching the digital indication.

- 25. (Currently Amended) The method of claim 19, <u>further comprising:</u>

 <u>performing a frame update operation to the pixel cell at a rate different than a rate of the refresh operation</u> wherein the refresh and frame update operations are associated with different rates.
 - 26. (Currently Amended) Amethod comprising:

providing a light modulator comprising an array of pixel cells and memory buffers, each memory buffer being associated with a different one of the pixel cells and each memory buffer being located closer to the associated pixel cell than the other pixel cells;

providing capacitors, each capacitor being associated with a different <u>one of the</u> pixel cells cell to maintain a terminal voltage of the associated pixel cell near a predetermined voltage;

providing first memory buffers, each first memory buffer being associated with a different one of the pixel cells and storing a first digital indication of the associated predetermined voltage;

providing a second memory separate from the first memory buffers to store second digital indications of updated voltages for the pixel cells;

during a frame update operation, communicating the second digital indications from the second memory to update the terminal voltages of the pixel cells; and

during a refresh operation, converting the first digital indications stored in the memory buffers into analog voltages to update charges on the capacitors.

Claim 27. (Cancelled)

- 28. (Currently Amended) The method of claim 26, wherein the first memory buffers are localized to the different associated pixel cells. and the second memory is a global memory associated with the pixel cells
- 29. (Previously Added) The method of claim 26, wherein the capacitors are associated with a row of pixels.

30. (Previously Added) The method of claim 26, wherein the memory buffers comprise a part of a static random access memory.

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- 31. (Previously Added) The method of claim 26, further comprising: during the refresh operation, reading the digital indications from the memory buffers.
- 32. (Previously Added) The method of claim 26, further comprising: during the refresh operation, latching the digital indications.

Claims 33-39 (Cancelled)

40. (Currently Amended) A light modulator comprising: an array of pixel cells;

capacitors, each capacitor being associated with a different pixel cell to maintain a terminal voltage of the associated pixel cell near a predetermined voltage;

first memory buffers being spatially distributed among the pixel cells, each first memory buffer being associated with a different one of the pixel cells and storing a first digital indication of the associated predetermined voltage;

a second memory separate from the first memory buffers to store second digital indications of updated voltages for the pixel cells;

a circuit to during a frame update operation, communicate the second digital indications from the second memory to update the terminal voltages of the pixel cells; and

digital-to-analog converters to convert the first digital indications into analog voltages to update charges on the capacitors during a refresh operation.

41. (Currently Amended) The light modulator of claim 40, wherein the refresh operation operations occurs at a different rate than a the frame update operation to the pixel cells.

Claim 42. (Cancelled)

43. (Previously Added) The light modulator of claim 40, wherein the capacitors are associated with a row of pixels.

44. (Previously Added) The light modulator of claim 40, wherein at least one of the memory buffers comprises a static random access memory.